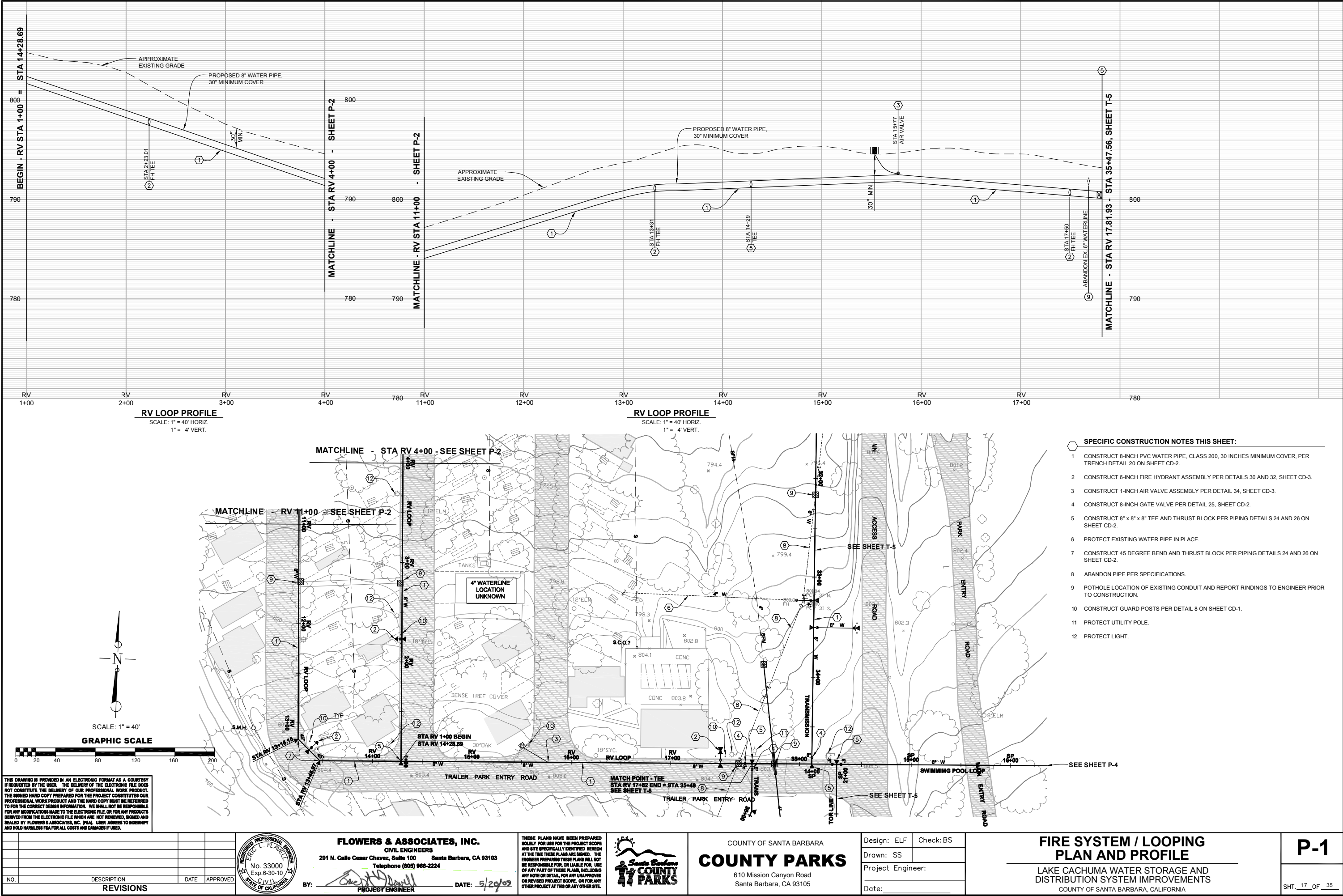

FINAL ENVIRONMENTAL ASSESSMENT

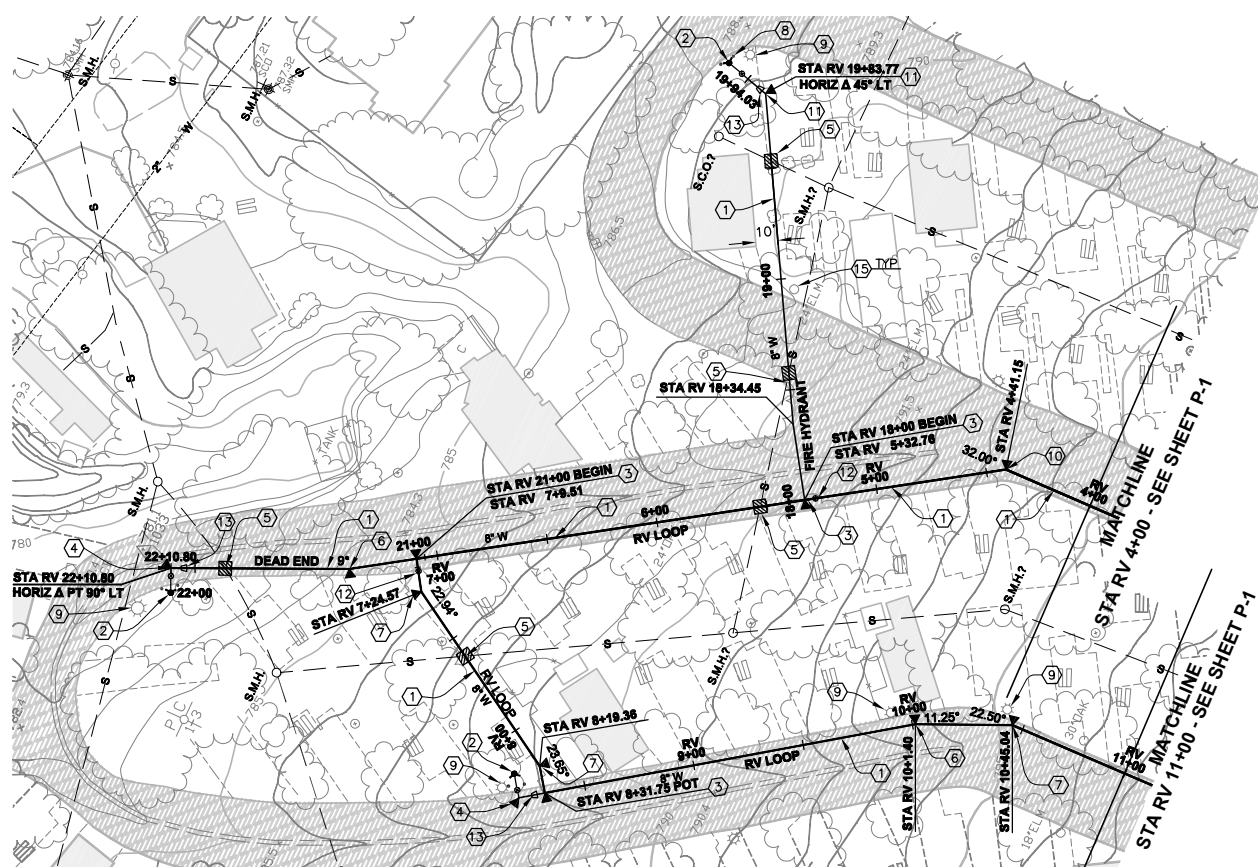
*SANTA BARBARA COUNTY PARKS WATER SYSTEM UPGRADES AT LAKE
CACHUMA CAMPGROUND*

Appendix A
Preliminary Project Designs Set 2

June 2010

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FLOWERS & ASSOCIATES, INC.
CIVIL ENGINEERS
201 N. Calle Cesar Chavez, Suite 100 Santa Barbara, CA 93103
Telephone (805) 966-2224

BY:  DATE: 5/29/09

PROJECT ENGINEER

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COUNTY PARKS
610 Mission Canyon Road
Santa Barbara, CA 93105

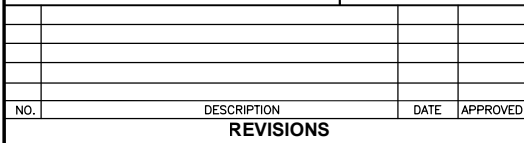
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FIRE SYSTEM / LOOPING PLAN AND PROFILE

LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

P-2
SHT. 18 OF 35





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COUNTY OF SANTA BARBARA

COUNTY PARKS

610 Mission Canyon Road
Santa Barbara, CA 93105

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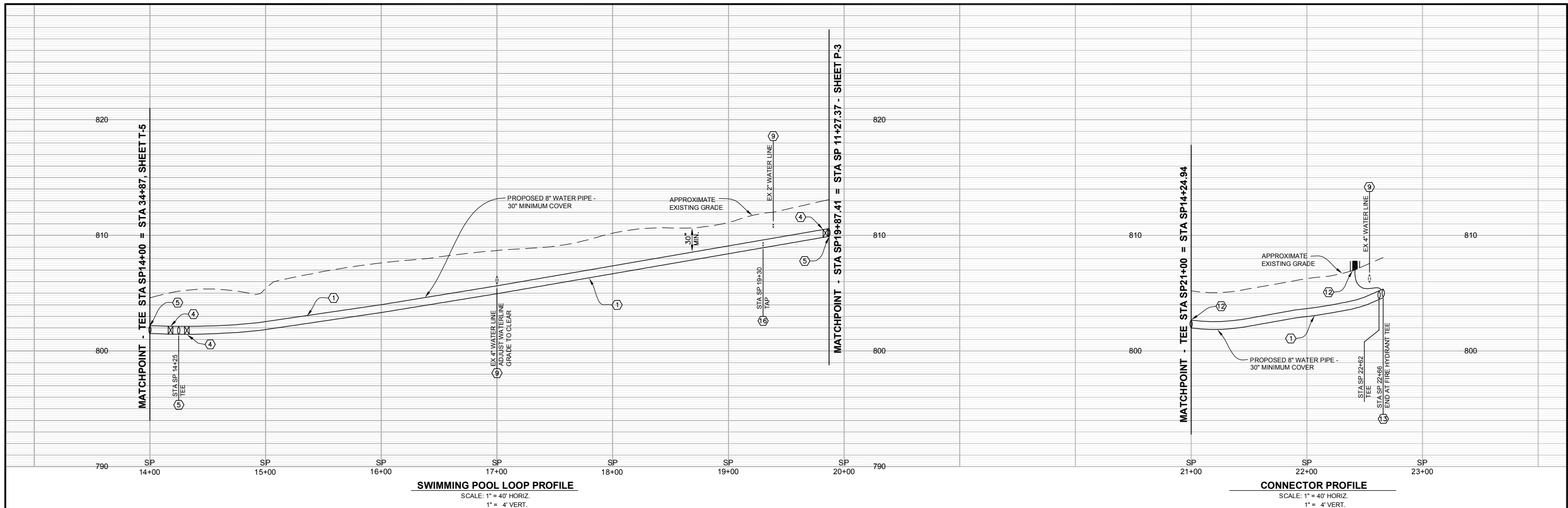
FIRE SYSTEM / LOOPING PLAN AND PROFILE

LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

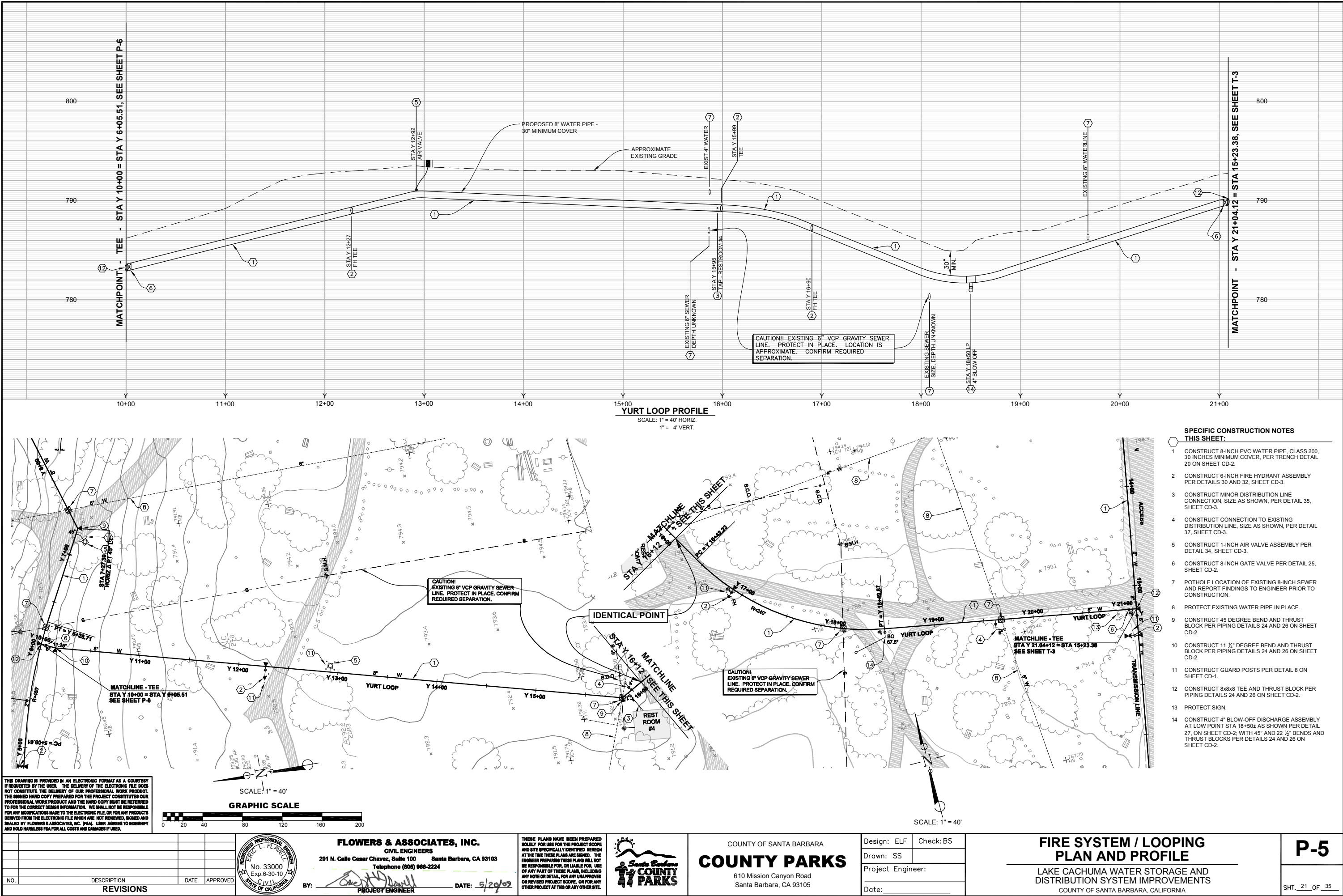
P-4

SHT. 20 OF 35

- ## **SPECIFIC CONSTRUCTION NOTES SHEET 2**
- 1 CONSTRUCT 8-INCH PVC WATER PIPE, CLASS 200, 30 INCHES MINIMUM COVER, PER TRENCH DETAIL 20 ON SHEET CD-2.
 - 2 CONSTRUCT 6-INCH FIRE HYDRANT ASSEMBLY PER DETAILS 30 AND 32, SHEET CD-3.
 - 3 CONSTRUCT CONNECTION TO EXISTING DISTRIBUTION LINE, SIZE AS SHOWN, PER DETAIL 37, SHEET CD-3.
 - 4 CONSTRUCT 8-INCH GATE VALVE PER DETAIL 25, SHEET CD-2.
 - 5 CONSTRUCT 8" x 8" x 8" TEE AND THRUST BLOCK PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
 - 6 PROTECT EXISTING WATER PIPE IN PLACE.
 - 7 CONSTRUCT END CAP AND THRUST BLOCK PER PIPING DETAILS 24 AND 25 ON SHEET CD-2.
 - 8 ABANDON PIPE PER SPECIFICATIONS.
 - 9 POTHOLE LOCATION OF EXISTING CONDUIT AND REPORT FINDINGS TO ENGINEER PRIOR TO CONSTRUCTION.
 - 10 CONSTRUCT GUARD POSTS PER DETAIL 8 ON SHEET C D-1.
 - 11 PROTECT LIGHT.
 - 12 CONSTRUCT 1" AIR VALVE ASSEMBLY PER DETAIL 34 ON SHEET CD-3.
 - 13 CONSTRUCT 8" DI 90° BEND (FLXFL) AND THRUST BLOCK PER PIPING DETAILS 24 AND 25, SHEET CD-2.
 - 14 CONSTRUCT 8"X6" REDUCER AND 6"X6"X4" TEE AND THRUST BLOCKS PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
 - 15 CONSTRUCT 6" 90° BEND AND THRUST BLOCK PER DETAILS 24 AND 26 ON SHEET CD-2.
 - 16 CONSTRUCT CONNECTION TO MINOR LINE, SIZE AS SHOWN, PER DETAIL 36, SHEET CD-3 WITH TEE CONNECTION TO EXISTING LINE.



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MATCHPOINT - TEE - STA Y 10+00 = STA Y 6+05.51, SEE SHEET P-6

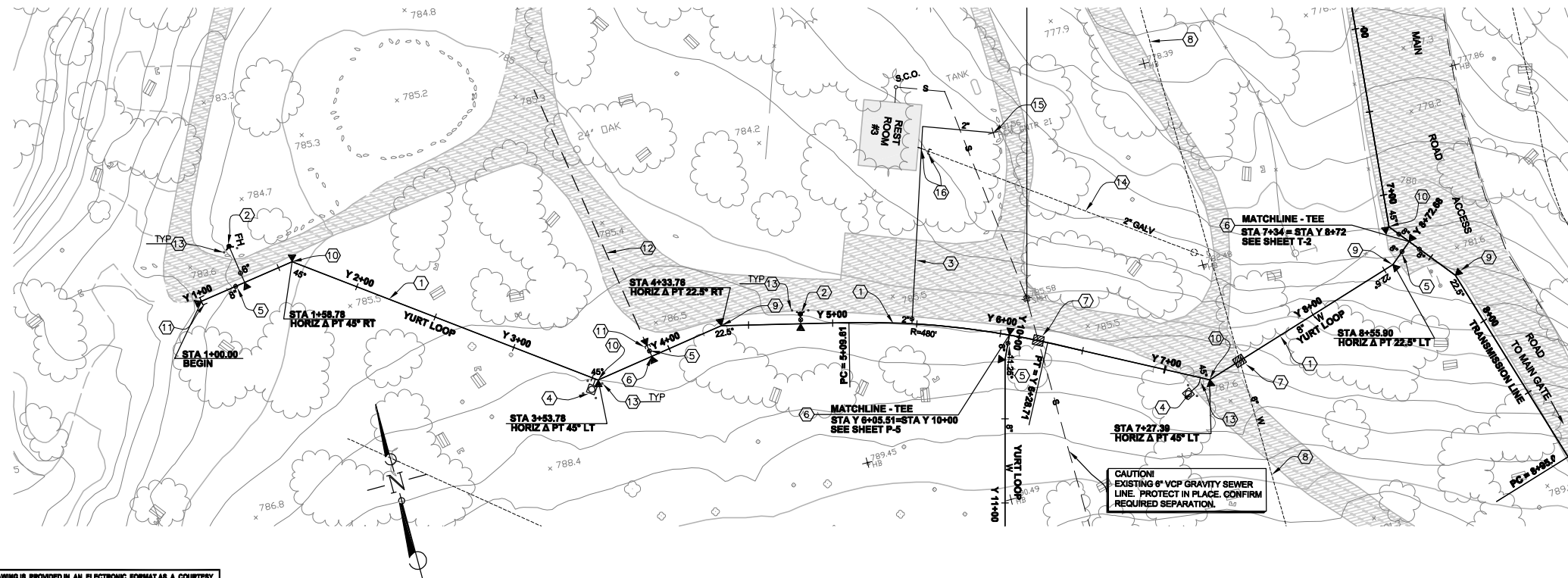
MATCHPOINT - STA Y 21+04.12 = STA Y 15+23.38, SEE SHEET T-3

YURT LOOP PROFILE

SCALE: 1" = 40' HORIZ
1" = 4' VERT.

**SPECIFIC CONSTRUCTION NOTES
THIS SHEET:**

1. CONSTRUCT 8-INCH PVC WATER PIPE, CLASS 200, 30 INCHES MINIMUM COVER, PER TRENCH DETAIL 20 ON SHEET CD-2.
2. CONSTRUCT 6-INCH FIRE HYDRANT ASSEMBLY PER DETAILS 30 AND 32, SHEET CD-3.
3. CONSTRUCT MINOR DISTRIBUTION LINE CONNECTION, SIZE AS SHOWN, PER DETAIL 35, SHEET CD-3.
4. CONSTRUCT CONNECTION TO EXISTING DISTRIBUTION LINE, SIZE AS SHOWN, PER DETAIL 37, SHEET CD-3.
5. CONSTRUCT 1-INCH AIR VALVE ASSEMBLY PER DETAIL 34, SHEET CD-3.
6. CONSTRUCT 8-INCH GATE VALVE PER DETAIL 25, SHEET CD-2.
7. POTHOLE LOCATION OF EXISTING 8-INCH SEWER AND REPORT FINDINGS TO ENGINEER PRIOR TO CONSTRUCTION.
8. PROTECT EXISTING WATER PIPE IN PLACE.
9. CONSTRUCT 45 DEGREE BEND AND THRUST BLOCK PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
10. CONSTRUCT 11 1/2" DEGREE BEND AND THRUST BLOCK PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
11. CONSTRUCT GUARD POSTS PER DETAIL 8 ON SHEET CD-1.
12. CONSTRUCT 8x8x8 TEE AND THRUST BLOCK PER PIPING DETAILS 24 AND 26 ON SHEET CD-2.
13. PROTECT SIGN.
14. CONSTRUCT 4" BLOW-OFF DISCHARGE ASSEMBLY AT LOW POINT STA 18+50+ AS SHOWN PER DETAIL 27, ON SHEET CD-2; WITH 45° AND 22 1/2° BENDS AND THRUST BLOCKS PER DETAILS 24 AND 26 ON SHEET CD-2.



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BY: [Signature]
PROJECT ENGINEER

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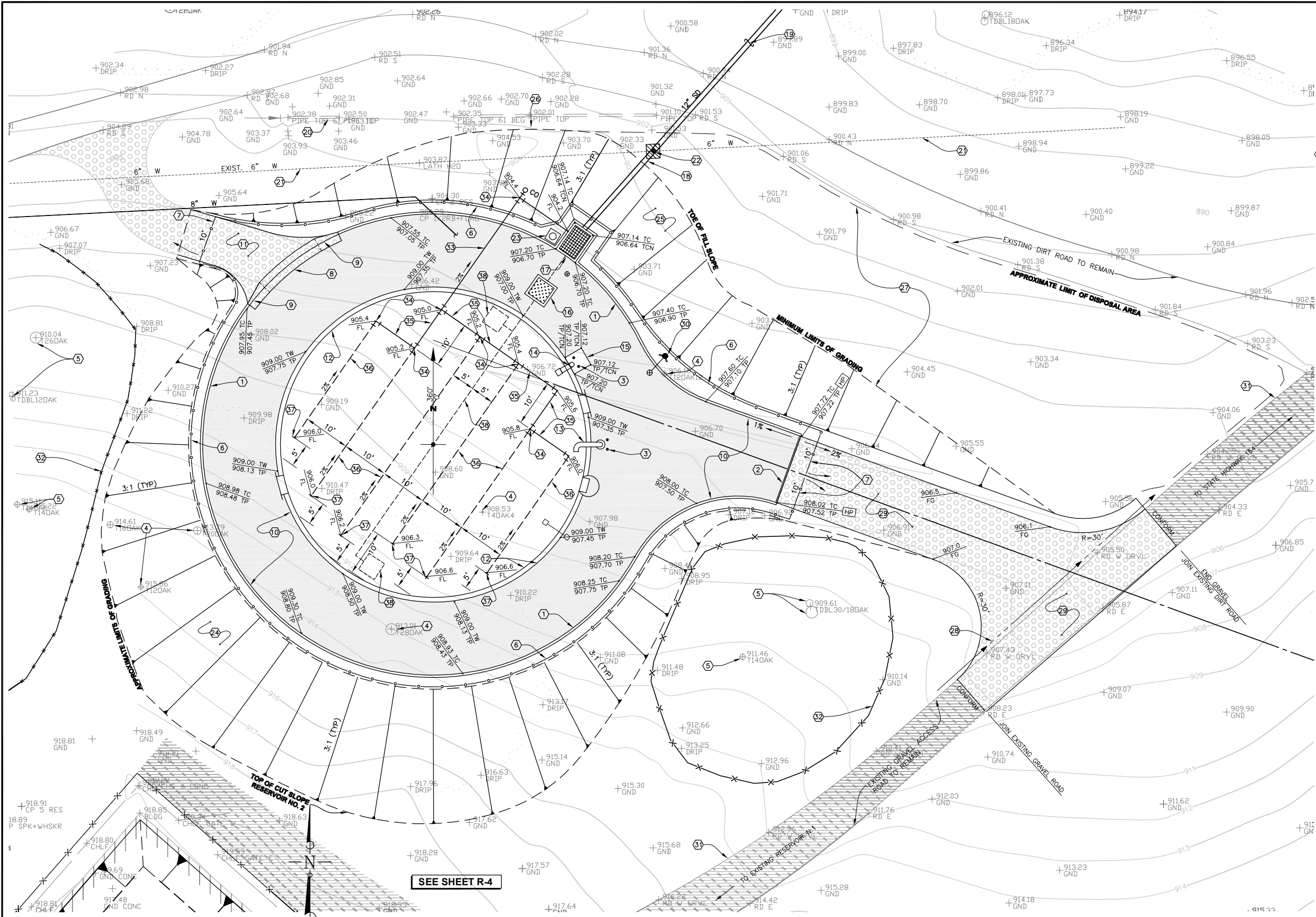


COUNTY OF SANTA BARBARA
COUNTY PARKS
610 Mission Canyon Road
Santa Barbara, CA 93105

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LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

SHT. 22 OF 35



GENERAL CONSTRUCTION NOTES THIS SHEET:

- ALL GRADING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, THE DRAWINGS AND THE SPECIFICATIONS.
- DIMENSIONS FOR RESERVOIR AND ACCESS ROAD ARE ON SHEET R-2
- THE TOP 12" OF SOIL SHALL BE REMOVED AND STOCKPILED TO BE REUSED AS COVER MATERIAL ON THE FILL SLOPES. THIS MATERIAL SHALL BE PLACED AND WHEEL ROLLED PRIOR TO HYDROSEEDING THE SLOPE.
- HYDROSEED ALL AREAS DISTURBED BY THE WORK EXCEPT FOR PAVED AREAS OR THE EXISTING ACCESS ROAD.
- SEE ADDITIONAL GRADING DETAILS AND INFORMATION ON SHEET R-3

SPECIFIC CONSTRUCTION NOTES THIS SHEET:

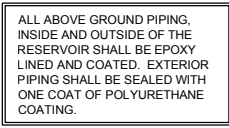
- CONSTRUCT CONCRETE CURB PER DETAIL 3 ON SHEET CD-1.
- CONSTRUCT REDWOOD HEADER PER DETAIL 6 ON SHEET CD-1.
- CONSTRUCT GUARD POST PER DETAIL 8 ON SHEET CD-1 (TYPICAL).
- REMOVE TREE. IN LOCATIONS WHERE IMPROVEMENTS ARE CONSTRUCTED, REMOVE ROOTS AND ROOT STRUCTURE, FILL AND COMPACT FILL TO MINIMUM 95% OF MAXIMUM DENSITY. FOR EACH TREE REMOVED, THE CONTRACTOR SHALL PLANT 10 - 5 GALLON TREES AT LOCATIONS SELECTED BY THE COUNTY, INSIDE THE PARK.
- PROTECT EXISTING TREE. CONSTRUCT TREE PROTECTION MEASURES. NO WORK SHALL BE PERFORMED INSIDE THE DRIP LINE WITHOUT OF THE CONTRACTOR'S ARBORIST.
- CONSTRUCT 6 FOOT HIGH PVC COATED FENCE WITH 1" MESH OPENING AND 3 STRAND BARBED WIRE ON TOP. FENCING SHALL INCLUDE TOP AND BOTTOM RAIL AND ALL COMPONENTS SHALL BE PVC COATED. FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CALTRANS STANDARD PLAN A85.
- CONSTRUCT 10' WIDE PVC COATED GATE LEAF. DOUBLE OR SINGLE AS SHOWN ON THE PLAN, WITH MINIMUM 3" DIAMETER POSTS AND GATE "HOLD-OPEN" FOR EACH.
- CONSTRUCT MOUNTABLE CURB PER DETAIL 4 ON SHEET CD-1.
- CONSTRUCT 5' LONG TRANSITION BETWEEN CURB AND MOUNTABLE CURB.
- CONSTRUCT A.C. PAVEMENT ON AGGREGATE BASE PER DETAIL 2 ON SHEET CD-1.
- GRADE SMOOTH TRANSITION FROM MOUNTABLE CURB TO GATE. COMPACT SOIL TO MINIMUM 95% OF MAXIMUM DENSITY.
- RING WALL AND RESERVOIR AS SHOWN ON SHEET R-2.
- CONSTRUCT RESERVOIR INLET PIPING AS SHOWN ON SHEET R-2.
- CONSTRUCT OVERFLOW PIPING AS SHOWN ON SHEET R-2.
- CONSTRUCT OVERFLOW SPLASH PAD AS SHOWN ON SHEET R-2.
- CONSTRUCT VALVE VAULT AS SHOWN ON SHEET R-2.
- CONSTRUCT CATCH BASIN AND DRAIN LINE AS SHOWN ON SHEET R-2.
- CONSTRUCT 12" HDPE STORM DRAIN. STORM DRAIN IS APPROXIMATELY 100' LONG. FIELD VERIFY DISCHARGE POINT WITH ENGINEER, PRIOR TO CONSTRUCTION AND ORDERING PIPE. MINIMUM 2% SLOPE AND MINIMUM OF 50" SHALL BE BURIED.
- CONSTRUCT RIP RAP ENERGY DISSIPATER PER DETAIL 7 ON SHEET CD-1. ROCK SHALL RANGE IN SIZE FROM 8" MINIMUM TO 16" MAX AND SHALL CONSIST OF MINIMUM OF TWO LAYERS OF ROCK IN ALL LOCATIONS.
- EXISTING ABANDONED WATER LINE, REMOVE AS REQUIRED FOR CONSTRUCTION.
- EXISTING WATER LINE TO CAMP WHITTIER. PROTECT IN PLACE. WATERLINE MUST BE OPERATIONAL AT ALL TIMES, UNLESS APPROVED IN ADVANCE BY THE ENGINEER IN WRITING.
- POTHOLE EXISTING WATERLINE PRIOR TO CONSTRUCTION TO CONFIRM THAT STORM DRAIN WILL PASS BELOW AND CLEAR WATERLINE BY MINIMUM 6".
- CONSTRUCT ARV ASSEMBLY AS SHOWN ON SHEET R-2.
- CONSTRUCT CUT SLOPE AT 3H:1V GRADE. PROTECT EXISTING FENCE AND RESERVOIR.
- CONSTRUCT FILL SLOPE AT 3H:1V GRADE. BENCH AND COMPACT AS REQUIRED, SEE SHEET R-3.
- CONSTRUCT MINIMUM 12" WIDE KEY AT TOE OF SLOPE (TYPICAL). SEE DETAIL E ON SHEET R-3.
- EXCESS SOIL CAN BE DISPOSED OF IN THIS AREA, AND SHALL BE PLACED AND CONSOLIDATED PER DETAIL 1 ON SHEET CD-1.
- REESTABLISH DRAINAGE SWALE ALONG SIDE OF EXISTING ACCESS ROAD AT THE DRIVE ENTRANCE TO THE RESERVOIR.
- CONSTRUCT NEW ACCESS ROAD AND RE-ESTABLISH EXISTING ROAD. GRADE, SCARIFY AND COMPACT 8" OF SOIL TO MINIMUM OF 95% OF MAXIMUM DENSITY. TOP WITH 2" OF 3/4" CRUSHED ROCK WITH DARK OR EARTH COLOR AND COMPACT.
- CONSTRUCT FIRE HYDRANT PER DETAIL 32 ON SHEET CD-3.
- REGRADE ENTIRE DIRT ROAD FROM HWY 154 TO EXISTING RESERVOIR, SEE LIMITS ON SHEET G-3. ROAD SHALL BE GRADED WITH FILL AS REQUIRED AND MINIMUM 6" COMPACTED TO MINIMUM 95% OF MAX. DENSITY. REESTABLISH DRAINAGE SWALE ADJACENT TO ROAD. TOP WITH 2" OF 3/4" CRUSHED ROCK WITH DARK OR EARTH COLOR AND COMPACT.
- 3-FOOT HIGH ORANGE TREE PROTECTION FENCING AS DIRECTED BY INSPECTOR. TYPICAL AROUND ALL TREES WITHIN THE WORK AREA.
- CONSTRUCT TANK SUBDRAIN SYSTEM AS SHOWN USING SCHEDULE 80 ABS PIPE AND FITTINGS. ALL PIPE TO BE SOLVENT WELDED AND PLACED AT 2% MINIMUM INVERT GRADE AS SHOWN.
- CONSTRUCT SIX-3"x3"x3" TEES FOR LATERAL CONNECTIONS AT LOCATIONS SHOWN IN LAYOUT DIAGRAM AND THREE 90° 3" BENDS FOR SUBDRAIN MANIFOLD SYSTEM.
- MANIFOLD COMPONENTS AND DRAINLINE TO INLET BOX TO BE CONSTRUCTED WITH 3" SOLID SCHEDULE 80 PIPE AS SHOWN.
- DRAINAGE LATERALS TO BE CONSTRUCTED WITH 3" PERFORATED SCHEDULE 80 PIPE AS SHOWN ON LAYOUT. ALL PIPE TO HAVE FILTER SOCK INSTALLED.
- ALL DRAIN LATERALS TO HAVE 3" CAP INSTALLED AT END OF PERFORATED PIPE RUNS AS SHOWN.
- CONSTRUCT TANK DRAIN BOXES AND 8" TANK DRAINLINE PER DETAILS ON SHEET R-2.

RESERVOIR SITE GRADING,
PAVING AND DRAINAGE PLAN

LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

R-1

SHT. 5 OF 35



C **RESERVOIR DRAIN DETAIL**
NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
ERIC L. FLAVELL
No. 33000
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

BY: [Signature]
PROJECT ENGINEER

SHT. 6 OF 35

A. ALL ABOVE GROUND PIPING, THE RESERVOIR AND EXPOSED FERROUS METALS, INCLUDING PIPE IN VAULTS SHALL BE EPOXY LINED AND COATED. COLORS SHALL BE AS SELECTED BY THE COUNTY.

B. PIPING ASSEMBLY AND OTHER DETAILS APPLY WHETHER SPECIFICALLY REFERENCED OR NOT.

CONSTRUCT SLEEVE FOR 8" DRAIN LINE THROUGH RING WALL .

CONSTRUCT DRAIN LINE FROM DRAINAGE SUMPS OF 8" DIP TERMINATE IN PLAIN END.

CONSTRUCT RESERVOIR FOUNDATION, SEE SHEET S-2.1.

CONSTRUCT FLEX COUPLER.

CONSTRUCT DIP NIPPLE (PE X PE).

CONSTRUCT DIP NIPPLE (FLG X PE).

CONSTRUCT GATE VALVE (FLG X FLG) WITH 2" NUT OPERATOR.

CONSTRUCT LOW HEAD CHECK VALVE WITH "HOLD OPEN".

CONSTRUCT 4' X 4' PRECAST VAULT. SET VAULT TO MATCH SLOPE OF ROAD AS CALLED FOR ON GRADING PLAN SHEET R-1.

TRAFFIC RATED ALUMINUM, SPRING LOADED, HINGED, LOCKING COVER.

GROUT DRAIN KNOCK-OUT FLUSH WITH BOTTOM OF VAULT.

CORE HOLE FOR DRAIN LINE AND CAULK ANNULAR SPACE.

CONSTRUCT 2" PVC DRAIN LINE AND CAULK ANNULAR SPACE OF WALL PENETRATIONS.

CONSTRUCT 2" THREADED PVC CHECK VALVE.

CONSTRUCT 8" DIP TEE (RMJ X RMJ X FLG) AND THRUST BLOCK.

CONSTRUCT CUSTOM MADE 8" ENERGY DISSIPATER (FLG X FLG) WITH 5 - 1" WIDE SLOTS.

CONSTRUCT PIPE SUPPORT PER DETAIL 5 ON SHEET S-4.2.

CONSTRUCT GALVANIZED GRATE FRAME PER CALTRANS D77A.

CONSTRUCT FABRICATED WELDED AND GALVANIZED GRATE PER CALTRANS STANDARD PLAN D77A, TYPE 18-9X AND 24-12X GRATE, MODIFIED TO THE DIMENSIONS SHOWN ON THE PLANS. GRATING SHALL BE CUT INTO SECTIONS NOT TO EXCEED 30 LBS.

CUT AND BAND OPENING LOCATED OVER THE VALVE AND SIZED TO ALLOW ACCESS OF 2" NUT WRENCH WITHOUT REMOVING THE GRATE.

CONSTRUCT 6" AGGREGATE BASE UNDER ALL STRUCTURES (TYPICAL).

REMOVE SOIL A MINIMUM OF 2' BELOW ALL PROPOSED IMPROVEMENTS AND EXTENDING A MINIMUM OF 5' BEYOND. SCARIFY AND MOISTURE CONDITION SUBGRADE AND COMPACT TO MINIMUM OF 95% OF MAXIMUM DENSITY. CLEAN, CONDITION AND REPLACE REMOVED SOIL AND COMPACT TO MINIMUM OF 95% OF MAXIMUM DENSITY.

CONSTRUCT 12" HDPE STORM DRAIN WITH INTEGRAL WEEP RING.

CONSTRUCT A.C. PAVEMENT STRUCTURAL SECTION PER DETAIL 2 ON SHEET CD-1.

SLOPE EXCAVATION FROM ONE ELEVATION TO THE NEXT AT 1H:1V. BENCH FILL A MINIMUM OF 2' INTO SLOPE AS FILL IS PLACED (TYP).

CONSTRUCT FILL SLOPE AT MAXIMUM OF 3H:1V SLOPE OR FLATTER. FINISH SLOPE SHOULD BE CONTOUR GRADED FOR A NATURAL APPEARANCE.

REMOVE 12" OF TOP SOIL AND STOCK PILE FOR REUSE AS SURFACE SOIL ON FINISH GRADE. COMPACT MOISTURE CONDITION AND COMPACT SUBGRADE TO MINIMUM OF 90% OF MAXIMUM DENSITY. CONSTRUCT KEY AT BASE OF SLOPE AND BENCH INTO SLOPE, PER DETAIL 1 ON SHEET CD-1.

CONSTRUCT EXCESS SOIL DISPOSAL FILL TO THE APPROXIMATE LIMITS SHOWN IN PLAN ON SHEET R-2.

CONSTRUCT 6 FOOT HIGH PVC COATED FENCE WITH 1" MESH OPENING AND THREE STRAIN BARBED WIRE ON TOP. FENCING SHALL INCLUDE TOP AND BOTTOM RAIL AND ALL COMPONENTS SHALL BE PVC COATED. FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CALTRANS STANDARD PLAN A85.

CONSTRUCT VAULT, CATCH BASIN AND PIPE ASSEMBLY PER DETAIL D THIS SHEET.

OVEREXCAVATION SHALL BE MINIMUM 5' BELOW EXISTING GRADE AND 2' BELOW THE BOTTOM OF THE RING WALL FOUNDATION, AND EXTEND A MINIMUM OF 5' BEYOND THE PERIMETER OF THE RING WALL. CONFIRM PLAN ELEVATION CONFORMS TO THIS CRITERIA.

SEE SHEET S-4.2 FOR RESERVOIR FOUNDATION MATERIAL.

CONSTRUCT 8" DIP DRAIN LINE.

CONSTRUCT RESERVOIR PER PLAN AND DETAILS ON SHEET R-2

CONSTRUCT CONCRETE CURB PER PLAN LAYOUT ON SHEET R-1, R-2 AND DETAIL 3 ON SHEET CD-1.

CONSTRUCT CUT SLOPE AT MAXIMUM 3H:1V AND CONTOUR GRADE FOR SMOOTH NATURAL APPEARANCE. NO EXCAVATION WORK SHALL BE WITHIN 20' OF THE EXISTING RESERVOIR.

PROTECT EXISTING FENCE.

EXISTING RESERVOIR. PROTECT IN PLACE. SEE SHEET R-4 FOR MODIFICATION TO EXISTING RESERVOIR.

REMOVE EXISTING ROOF STRUCTURE AND CONSTRUCT NEW ROOF STRUCTURE AND WALK WAY PER DETAILS ON SHEET S-4.1.

CONSTRUCT INLET / OUTLET PIPING MODIFICATIONS PER DETAILS ON SHEET R-4.

BLOCK OUT FOOTING AS REQUIRED FOR INSTALLATION OF FLEX COUPLING. SUBMIT PROPOSED MODIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

CONSTRUCT RESERVOIR DRAIN / INLET PER STRUCTURAL DRAWINGS SHEET S-4.2.

CONSTRUCT 12 VOLT LIGHTING SYSTEM WITH 5-10 WATT LIGHTS. LIGHTS SHALL BE SET 7' ABOVE WALKWAY.

CONSTRUCT SOLAR PANEL AND BATTERY PACK SIZED FOR 5-100 WATT BULBS FOR 8 HOURS CONTINUOUS USE.

CONSTRUCT WALKWAY AND HANDRAIL PER STRUCTURAL DETAILS ON SHEET S-4.1.

SCALES: VERT = 1" = 1'
HORIZ = 1" = 1'

SCALES: VERT = 1" = 10'
HORIZ = 1" = 10'

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LAKE CACHUMA WATER STORAGE AND
DISTRIBUTION SYSTEM IMPROVEMENTS
COUNTY OF SANTA BARBARA, CALIFORNIA

R-3

SHT. 7 OF 35

SHT. 8 OF 35

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